

## **Graphic Arts**

**Table I (1 of 3)**  
**Identification of Performance Standards**  
**Source Category: Graphic Arts**

Regulated Component	Pollutant	Rule/Measure/Date									
		Bay Area 8-20, Graphic Arts Printing & Coating Operations, 12/20/95		El Dorado 231, Graphic Arts Operations, 09/27/94		Kern 410.7, Graphic Arts, 03/07/96		Mojave 1117, Graphic Arts, 06/22/94		Placer 239, Graphic Arts Operations, 08/14/97	
		Performance Standard									
exempt compounds	VOC		other compounds		methylene chloride; 1,1,1,trichloroethane plus other compounds		methylene chloride; 1,1,1,trichloroethane plus other compounds		methylene chloride; 1,1,1,trichloroethane plus other compounds		methylene chloride; 1,1,1,trichloroethane; perchloroethylene plus other compounds
ink	VOC	x	300 grams VOC per liter of product, less water, as applied	x	300 grams VOC per liter of material, less water and exempt compounds, as applied	x	300 grams VOC per liter, less water and exempt compounds	x	300 grams VOC per liter, less water and exempt compounds, as applied	x	300 grams VOC per liter of material, less water and exempt compounds, as applied
coating	VOC	x	300 grams VOC per liter of product, less water, as applied	x	300 grams VOC per liter of material, less water and exempt compounds, as applied	x	300 grams VOC per liter, less water and exempt compounds	x	300 grams VOC per liter, less water and exempt compounds, as applied	x	300 grams VOC per liter of material, less water and exempt compounds, as applied
adhesive	VOC	x	150 grams VOC per liter of product, less water, as applied		300 grams VOC per liter of material, less water and exempt compounds, as applied		300 grams VOC per liter, less water and exempt compounds		300 grams VOC per liter, less water and exempt compounds, as applied		300 grams VOC per liter of material, less water and exempt compounds, as applied
web splicing adhesive	VOC	x	300 grams VOC per liter of product, less water, as applied								
specialty inks	VOC										
• metallic ink	VOC										

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		Performance Standard									
• matte finish ink	VOC										
fountain solution	VOC	x	8 % VOC by volume ~ 63 g/l <sup>1</sup>		116 grams of VOC per liter of material, as applied		15 % by volume				116 grams VOC per liter of material, as applied
publication gravure	VOC	x	overall collection and control efficiency of 85% mass basis		see emissions control (67 %)		90% capture efficiency; 95% control device efficiency; or emission reduced by at least 85% overall		90% control device efficiency, and 75 % combined capture and control emission reduction efficiency		see emissions control (67 %)
packaging gravure	VOC	x	75% see gravure		see emissions control (67 %)		90% capture efficiency; 95% control device efficiency; or emission reduced by at least 75% overall		90% control device efficiency, and 65 % combined capture and control emission reduction efficiency		see emissions control (67 %)

<sup>1</sup>63 g/l VOC was a rough calculation for the equivalent VOC content of 8%; the next lowest VOC content requirement is 100 g/l

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		Performance Standard									
specialty gravure	VOC	x	75% see gravure		see emissions control (67 %)		90% capture efficiency; 95% control device efficiency; or emission reduced by at least 75% overall				see emissions control (67 %)
gravure	VOC	x	collection and control efficiency of 75% overall on a mass basis		see emissions control (67 %)						see emissions control (67 %)
flexography	VOC	x	collection and control efficiency of 75% overall on a mass basis		see emissions control (67 %)		90% capture efficiency; 95% control device efficiency; or emission reduced by at least 75% overall		90% control device efficiency, and 60 % combined capture and control emission reduction efficiency		see emissions control (67 %)
letterpress	VOC	x	collection and control efficiency of 75% overall on a mass basis		see emissions control (67 %)		90% capture efficiency; 95% control device efficiency; or emission reduced by at least 75% overall		exempt		see emissions control (67 %)

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		Performance Standard									
lithographic	VOC	x	collection and control efficiency of 75% overall on a mass basis		see emissions control (67 %)		90% capture efficiency; 95% control device efficiency; or emission reduced by at least 75% overall		exempt		see emissions control (67 %)
wall paper screen	VOC				see emissions control (67 %)						
General Emission Limitations:											
emission from printing and drying operations	VOC										
emissions from other types of printing	VOC										
emissions control	VOC		collection and control efficiency of 75% overall on a mass basis		control device efficiency of 95 % on a mass basis and emission collection efficiency of 70 %						control device efficiency of 95 % on a mass basis and emission collection efficiency of 70 %

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		Performance Standard									
records - lists of solutions	VOC		maintain list of inks, coating, adhesives, fountain solutions and makeup solvent with the VOC content		maintain list of inks, coating, adhesives, fountain solutions, makeup solvent, surface preparation and cleanup solvents with the VOC content		maintain list of inks and solvents with the mix ratio of components used, VOC content and chemical constituents		material name, manufacturer id, mixing instruction , VOC content for ink, coating, and adhesive (packaging rotogravure, publication rotogravure, and flexographic printing)		maintain list of inks, coating, adhesives, fountain solutions, makeup solvents, surface prep, and cleanup solvents with the VOC content on an as applied basis
records - type & quantity of use	VOC		record type and quantity of ink, coating, adhesive, fountain solution and makeup solvent use on a monthly basis		record type and quantity of use on a monthly basis		maintain records on a daily and monthly basis: vol ink/solvent mix ratio; VOC content (lbs/gal); vol of coating or ink used (gal) VOC content and quantity of solvent (gal)		quantity of ink, coating, and adhesive used on a daily basis (if complying)		record type and quantity of use on a monthly basis
records - retention time	VOC		retain records for two years		retain records for two years		retain records for two years	x	retain records for five years		retain records for two years

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		Performance Standard									
monitoring	VOC	x	emission controls shall have a readily visible temperature gauge monitoring the operating temperature during operation								
					record type and quantity of ink, coating, adhesive, fountain solution, makeup solvent, surface preparation and cleanup solvents on a daily basis if using emission controls				type and amount of ink, coating, and adhesive used with VOC content and density recorded daily		record type and quantity of use on a daily basis if using emission controls
		x	daily records of key system operating parameters						daily records of key system operating parameters		O & M plan required
		x	exempt facilities maintain records	x	exempt facilities maintain records	x	exempt facilities maintain records	x	exempt facilities maintain records	x	exempt facilities maintain records

**Table I (2 of 3)**  
**Identification of Performance Standards**  
**Source Category: Graphic Arts**

Regulated Component	Pollutant	Rule/Measure/Date									
		Sacramento 450, Graphic Arts Operations, 12/05/96		San Diego 67.16, Graphic Arts Operations, 05/15/96		San Joaquin Valley 4607, Graphic Arts, 09/17/97		South Coast 1130, Graphic Arts, 03/08/96		Ventura 74.19, Graphic Arts, 09/10/96	
		Performance Standard									
exempt compounds	VOC		methylene chloride; 1,1,1,trichloroethane; perchloroethylene plus other compounds		methylene chloride; 1,1,1,trichloroethane; perchloroethylene plus other compounds		methylene chloride; 1,1,1,trichloroethane; plus other compounds		methylene chloride; 1,1,1,trichloroethane; perchloroethylene plus others		methylene chloride; 1,1,1,trichloroethane; plus other compounds
ink	VOC	x	300 grams of VOC per liter of materials, less water and exempt compounds	x	300 grams of VOC per liter as applied, less water and exempt compounds used	x	300 grams of VOC per liter less water and exempt compounds	x	300 grams of VOC per liter less water and exempt compounds	x	300 grams of VOC per liter as applied, less water and exempt compounds
coating	VOC	x	300 grams of VOC per liter of materials, less water and exempt compounds	x	300 grams of VOC per liter as applied, less water and exempt compounds used	x	300 grams of VOC per liter less water and exempt compounds	x	300 grams of VOC per liter less water and exempt compounds	x	300 grams of VOC per liter as applied, less water and exempt compounds
adhesive	VOC		300 grams of VOC per liter of materials, less water and exempt compounds		300 grams of VOC per liter as applied, less water and exempt compounds used		300 grams of VOC per liter less water and exempt compounds (150 g/l 9/17/99)		300 grams of VOC per liter less water and exempt compounds		300 grams of VOC per liter as applied, less water and exempt compounds
web splicing adhesive	VOC					x	300 grams of VOC per liter less water and exempt compounds (9/17/99)				
specialty inks							2 gallons per day 120 gallons per year		see metallic ink and matte finish ink		



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		Performance Standard									
• metallic ink	VOC						485 g/l (9/17/98)		300 g/l unless usage is 2 gallons/day and 125 gallons/year or less and the PTE is 10 tons/yr or less and the VOC content < 535 g/l		
• matte finish ink	VOC						535 g/l (9/17/98)		300 g/l unless usage is 2 gallons/day and 125 gallons/year or less and the PTE is 10 tons/yr or less and the VOC content < 460 g/l		
fountain solution	VOC		116 grams VOC per liter of material, as applied		15 % by volume VOC, as applied		15 % VOC by volume (10 % in 1998, 8 % in 2000)	x	100 grams VOC per liter of material or 67 % overall control		115 grams VOC per liter
publication gravure	VOC		exempt	x	85 % see emission control (same as Bay Area)		75 % combined collection and control		75 % overall control efficiency		capture and control combined efficiency of 75 %
packaging gravure	VOC		67% or 75% reduction per production unit on a daily basis (see emissions control)		85 % see emission control		67% combined collection and control see emissions from other types of printing		67 % overall control efficiency		67% see emissions from other types of printing

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		Performance Standard									
specialty gravure	VOC		67% or 75% reduction per production unit on a daily basis (see emissions control)		85 % see emission control		67% combined collection and control see emissions from other types of printing				67% see emissions from other types of printing
gravure	VOC				85 % see emission control		67% combined collection and control see emissions from other types of printing				67% by weight see emissions from other types of printing
flexography	VOC		67% or 75% reduction per production unit on a daily basis (see emissions control)		85 % see emission control		67% combined collection and control see emissions from other types of printing		67 % overall control efficiency		67% by weight see emissions from other types of printing
letterpress	VOC		67% or 75% reduction per production unit on a daily basis (see emissions control)		85 % see emission control		67% combined collection and control see emissions from other types of printing		67 % overall control efficiency		67% by weight see emissions from other types of printing
lithographic	VOC		67% or 75% reduction per production unit on a daily basis (see emissions control)		85 % see emission control		67% combined collection and control see emissions from other types of printing		67 % overall control efficiency		67% by weight see emissions from other types of printing

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		Performance Standard									
wall paper screen	VOC		67% or 75% reduction per production unit on a daily basis (see emissions control)								
General Emission Limitations:											
emission from printing and drying operations	VOC										
emissions from other types of printing	VOC					overall control efficiency of 67 %					67 % by weight
emissions control	VOC		control device efficiency of 95 % on a mass basis and emission collection efficiency of 70 %	x	85 % combined capture and control device efficiency						
records - lists of solutions	VOC		maintain list with the VOC content on an as-applied basis		maintain list with the type, dilution ratio, VOC content		maintain list with the material name, manufacturer's name, VOC content as applied, mixing instructions, density, and vapor pressure		see Rule 109 list district rule number, permit units involved, method of application and substrate type, the VOC content		maintain list including material name, manufacturer id, mixing instructions and VOC content

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		Performance Standard									
records - type & quantity of use	VOC		record quantity of use on a monthly basis		record quantity of use on a daily or monthly basis		record quantity of use on a monthly basis		amount and type of graphic arts material used		record quantity of use on a daily basis (or monthly for small use and research exemption)
records - retention time	VOC		retain records for two years		retain records for three years		retain records for two years		retain records for two years		retain records for two years
monitoring	VOC										
			daily records of the type and volume of materials used if using control system		daily records of the type and volume of materials used if using control system		daily records of the type and volume of materials u sed if using control system				
			O & M plan required		daily records of key system operating parameters		daily records of key system operating parameters				daily records of key system operating parameters
		x	exempt facilities maintain records	x	exempt facilities maintain records	x	exempt facilities maintain records		* not clear		

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Regulated Component	Pollutant	Rule/Measure/Date									
		Yolo-Solano 2.29, Graphic Arts Printing Operations, 05/25/94		Printing and Publishing NESHAP							
		Performance Standard									
exempt compounds	VOC		methylene chloride; 1,1,1,trichloroethane plus others								
ink	VOC	x	300 grams VOC per liter of product as applied, less water and exempt compounds		limit emissions to < 4 % of the mass for the month for product and packaging rotogravure or wide-web flexographic printing						
coating	VOC	x	300 grams VOC per liter of product as applied, less water and exempt compounds		limit emissions to < 4 % of the mass for the month for product and packaging rotogravure or wide-web flexographic printing						

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Regulated Component	Pollutant	Rule/Measure/Date									
		Yolo-Solano 2.29, Graphic Arts Printing Operations, 05/25/94		Printing and Publishing NESHAP							
		Performance Standard									
adhesive	VOC	x	150 grams VOC per liter of product as applied, less water and exempt compounds		limit emissions to < 4 % of the mass for the month for product and packaging rotogravure or wide-web flexographic printing						
web splicing adhesive	VOC		300 grams VOC per liter of product as applied, less water and exempt compounds		limit emissions to < 4 % of the mass for the month for product and packaging rotogravure or wide-web flexographic printing						
specialty inks	VOC										
• metallic ink	VOC										
• matte finish ink	VOC										
fountain solution	VOC		100 g of VOC per liter of material, as applied								

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Regulated Component	Pollutant	Rule/Measure/Date									
		Yolo-Solano 2.29, Graphic Arts Printing Operations, 05/25/94		Printing and Publishing NESHAP							
		Performance Standard									
publication gravure	VOC		85 % see emissions from printing and drying operations		92% overall control of organic HAP (assume HAP control = VOC control) or mass of organic HAP < 8% of the mass of volatile matter used						
packaging gravure	VOC		85 % see emissions from printing and drying operations		95% overall control of organic HAP (assume HAP control = VOC control) mass of organic HAP < 5% of the mass of volatile matter used						
specialty gravure	VOC		85 % see emissions from printing and drying operations								
gravure	VOC		75 % overall collection and control efficiency								

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		Yolo-Solano 2.29, Graphic Arts Printing Operations, 05/25/94		Printing and Publishing NESHAP							
		Performance Standard									
flexography	VOC		75 % overall collection and control efficiency		95% overall control of organic HAP (assume HAP control = VOC control)						
letterpress	VOC		75 % overall collection and control efficiency								
lithographic	VOC		75 % overall collection and control efficiency								
wall paper screen	VOC										
General Emission Limitations:											
emissions from printing and drying operations	VOC		overall collection and control efficiency of 85 % mass basis								
emission from other types of printing	VOC										



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Regulated Component	Pollutant	Rule/Measure/Date										
		Yolo-Solano 2.29, Graphic Arts Printing Operations, 05/25/94			Printing and Publishing NESHAP							
		Performance Standard										
emissions control	VOC			92% overall control of organic HAP (assume HAP control = VOC control) for publication rotogravure and 95 % overall control of organic HAP for product and packaging rotogravure and wide-web flexographic printing								
records - lists of solutions	VOC		maintain list with the VOC content									
records - type & quantity of use	VOC		record quantity of use on a monthly basis									

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		Yolo-Solano 2.29, Graphic Arts Printing Operations, 05/25/94		Printing and Publishing NESHAP							
		Performance Standard									
records - retention time	VOC		retain records for two years								
monitoring	VOC										
			daily records of the type and volume of materials used if using control system								
			O & M plan required and daily record key operating parameters								

**Table II (1 of 3)**  
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Rule/Measure	Rule/Measure				
	Bay Area 8-20, Graphic Arts Printing & Coating Operations, 12/20/95	El Dorado 231, Graphic Arts Operations, 09/27/94	Kern 410.7, Graphic Arts, 03/07/96	Mojave 1117, Graphic Arts, 06/22/94	Placer 239, Graphic Arts Operations, 08/14/97
<b>Exemptions</b>	small user emitting < 400 lbs per month including surface prep and cleanup	small user emitting < 660 lbs per month including surface prep and cleanup	any facility emitting < 75 lbs per day	any facility emitting < 2500 lbs per month	any facility emitting < 660 lbs per month including surface prep and cleanup
	laboratory and experimental operations < 300 lbs per month	laboratory and experimental operations < 300 lbs per month			research and test < 300 lbs per month
	circuit board printing				
	heat shrinkable tubing				
	water slide decals				

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Applicability	graphic arts operations and graphic arts lines	graphic arts operations	graphic arts printing operations	any packaging rotogravure, publication rotogravure, or flexographic printing operation	graphic arts operations
				any person who manufactures sells, offers for sale, or supplies ink, coating or adhesive containing VOC for use in above operations	any person who manufactures, sells, offers to sell, or supplies graphic arts materials
	gravure	packaging gravure, specialty gravure	gravure	packaging rotogravure	packaging rotogravure, specialty gravure
	publication gravure	publication gravure		publication rotogravure	publication gravure
	flexographic printing	printing operations	flexographic printing	flexographic printing	flexographic printing
	screen printing	web-feed wall paper screen printing	screen printing	exempt	exempt
	letterpress	letterpress	letterpress	exempt	letterpress
	lithographic printing	lithographic printing	lithographic printing	exempt	lithographic printing

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	coating or laminating for flexible packaging materials	coating or laminating for flexible packaging materials	coating or laminating for flexible packaging materials		coating or laminating for flexible packaging materials
Comments					

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Rule/Measure	Rule/Measure				
	Sacramento 450, Graphic Arts Operations, 12/05/96	San Diego 67.16, Graphic Arts Operations, 05/15/96	San Joaquin Valley 4607, Graphic Arts, 09/17/97	South Coast 1130, Graphic Arts, 03/08/96	Ventura 74.19, Graphic Arts, 09/10/96
<b>Exemptions</b>	small user emitting < 660 lbs per month including surface prep and cleanup	source emitting < 15 lbs per day	any operation emitting < 400 lbs per month	facility emitting < 8 lbs per day including solvent cleaning operations	facility emitting < 175 lbs per month including solvent cleaning operations
	laboratory and experimental operations < 300 lbs per month				research, classroom instruction laboratory analysis < 175 lbs per month
		ceramic or circuit boards		ceramic materials, circuitry printing	ceramic materials, circuit board printing
		manufacture of solar control window film, heat applied transfer decals, ceramic decals for firing above 800 F		solar control window film, heat-applied transfer decals,	
		water slide decals			
		proofing systems	proof presses	proof presses	
		embossing and foil stamping which does not use VOC			
		paper, film, and fabric coating operations (subject to Rule 67.5)			

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		lithographic printing plate development			lithographic printing plate making
		blanket repair material applied from non-refillable aerosol containers of 4 ounces or less	blanket repair material applied from containers of 4 ounces or less	blanket repair material applied from containers of 4 ounces or less	
				sterilization indicating inks	sterilization indicating inks
			aerosol adhesives	aerosol coating products	
	publication rotogravure				
Applicability	graphic arts operations	continuous web or single sheet fed graphic arts printing, processing, laminating or drying operations	graphic arts printing operation and paper or fabric coating operation		any person who uses ink, coating, adhesive, fountain solution, or solvent containing VOC as part of a graphic arts operations
				persons performing graphic arts operations or who solicit, specify, offer for sale, sell or distribute graphic arts materials	any person in the District who manufactures ink, coating, adhesive, fountain solution, or solvent containing VOC sold for use in graphic arts operations

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	packaging gravure, specialty gravure	gravure	gravure	gravure	
	<b>exempts publication rotogravure</b>				
	flexographic printing	flexography	flexography	flexography	
	web-feed wall paper screen printing	screen	screen		screen printing exempt
	letterpress	letterpress	letterpress	letterpress	
	lithographic printing operation	lithography	lithography	lithography	
	coating or laminating for flexible packaging materials	coating or laminating	coating or laminating	coating or laminating	
<b>Comments</b>			~500 facilities; 35 permitted		



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	Yolo-Solano 2.29, Graphic Arts Printing Operations, 05/25/94	Printing and Publishing NESHAP			
Exemptions	small user emitting < 400 lbs per month including surface prep and cleanup	proof presses			
	laboratory and experimental operations < 300 lbs per month	sum total mass of materials applied < 5 weight percent of the total mass of materials applied per month			
		non-major sources			

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Rule/Measure	Rule/Measure				
	Yolo-Solano 2.29, Graphic Arts Printing Operations, 05/25/94	Printing and Publishing NESHAP			
Applicability	graphic arts operations	new and existing major source of HAPs			
	packaging gravure, specialty gravure	product and packaging rotogravure			
	publication gravure	publication rotogravure			
	flexographic printing	wide-web flexographic printing (18" wide or more)			
	web-feed wall paper screen printing	not covered			
	letterpress	not covered			
	lithographic printing operation	not covered			
	coating or laminating for flexible packaging materials	not covered if no printing			
Comments					